

WHAT IS CLAIMED IS:

1. A method for joining components of an ink jet
printhead to negate a bow in a finished assembly,
5 the method comprising the steps of:
 providing at least two contiguous ink
jet printhead components required to be joined; and
 providing a flexible lamination layer
between the at least two contiguous ink jet
10 components to join the at least two ink jet
components.

2. A method as claimed in claim 1 wherein the at
least two contiguous ink jet printhead components
15 comprises a plurality of series contiguous ink jet
components.

4. A method as claimed in claim 3 wherein the
thermoplastic stock comprises thermoplastic stock
20 having a thickness of approximately 0.0025".

5. A method as claimed in claim 3 wherein the
thermoplastic stock facilitates re-positioning of
precision ink jet components.

25 6. A method as claimed in claim 3 wherein the
thermoplastic stock comprises elastic thermoplastic
stock for reducing lamination stress between
components.

30 7. A method as claimed in claim 1 wherein the
flexible lamination layer comprises thermoplastic
adhesive stock.

35

8. A method as claimed in claim 7 wherein the flexible lamination layer comprises non-curing thermoplastic adhesive stock such that the lamination layer can be taken repeatably back through a softening temperature to facilitate component separation for reuse.

9. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a modified polyolefin.

10. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a non-curing thermoplastic adhesive stock that is resistant to high ph inks.

11. A method as claimed in claim 7 wherein the non-curing thermoplastic adhesive stock comprises a thermoplastic adhesive having a softening temperature between 90°C and 200°C.

12. A system for joining components of an ink jet printhead to negate a bow in a finished assembly, comprising:

at least two contiguous ink jet printhead components required to be joined; and
a flexible lamination layer between the at least two contiguous ink jet components to join the at least two ink jet components.

13. A system as claimed in claim 12 wherein the flexible lamination layer comprises thermoplastic stock.

14. A system as claimed in claim 13 wherein the thermoplastic stock comprises thermoplastic stock having a thickness of approximately 0.0025".
- 5 15. A system as claimed in claim 13 wherein the thermoplastic stock comprises elastic thermoplastic stock for reducing lamination stress between components.
- 10 16. A system as claimed in claim 13 wherein the thermoplastic stock can be taken back through its glass transition and made soft to facilitate component separation for reuse.
- 15 17. A system as claimed in claim 13 wherein the thermoplastic stock exhibits high viscosity during the lamination process, reducing material flow into areas that degrade printhead performance.
- 20 18. A system as claimed in claim 13 wherein the thermoplastic stock comprises a thermal barrier.
- 25 19. A system as claimed in claim 13 wherein the thermoplastic stock promotes improved charge plate condensation removal.
20. A system as claimed in claim 13 wherein the thermoplastic stock reduces component bow in the operating or printing condition.